

Candidate Name \_\_\_\_\_

Centre Number

Candidate  
Number

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**International General Certificate of Secondary Education**  
**UNIVERSITY OF CAMBRIDGE LOCAL EXAMINATIONS SYNDICATE**

**PHYSICS**

**0625/5**

PAPER 5 Practical Test

ANSWER BOOKLET

**MAY/JUNE SESSION 2001**

1 hour 15 minutes

**TIME** 1 hour 15 minutes

**INSTRUCTIONS TO CANDIDATES**

Write your name, Centre number and candidate number in the spaces provided at the top of this page.

Answer **all** questions.

Write your answers in the spaces provided on the answer booklet.

**FOR EXAMINER'S USE**

<b>1</b>	
<b>2</b>	
<b>3</b>	
<b>4</b>	
<b>TOTAL</b>	

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**This answer booklet consists of 7 printed pages and 1 blank page.**

**1 METHOD 1****(a)** Record of  $l$ **(b)** Record of  $l_0$  [3]**(f)** Record of  $V_t$ Record of  $N$  [3]**(g)** Calculation of  $V_0$  [1]**(h)** Calculation of  $V$ , using the equation  $V = V_0 \times \frac{l}{l_0}$  [2]**METHOD 2****(a)** Record of readings and calculations to obtain  $c$  [4]**(b)** Record of  $l$ **(c)** Calculation of  $V$ , using the equation  $V = 0.08 \times l \times c^2$  [2]

Total 15

2 (a) – (k)

<b>lamps</b>	<i>I/</i>	<i>V/</i>	<i>P/</i>
<b>Y</b>			
<b>Z</b>			
<b>Y and Z in series</b>			
<b>Y and Z in parallel</b>			

[10]

(h) Circuit diagram

[2]

(i) Which circuit would stop working first: series or parallel?

Justification of your answer

[3]

Total 15

3 (a) – (d)

$L / \text{N}$	$d / \text{mm}$	$e / \text{mm}$
0	$d_0 =$	0
1		
2		
3		
4		
5		

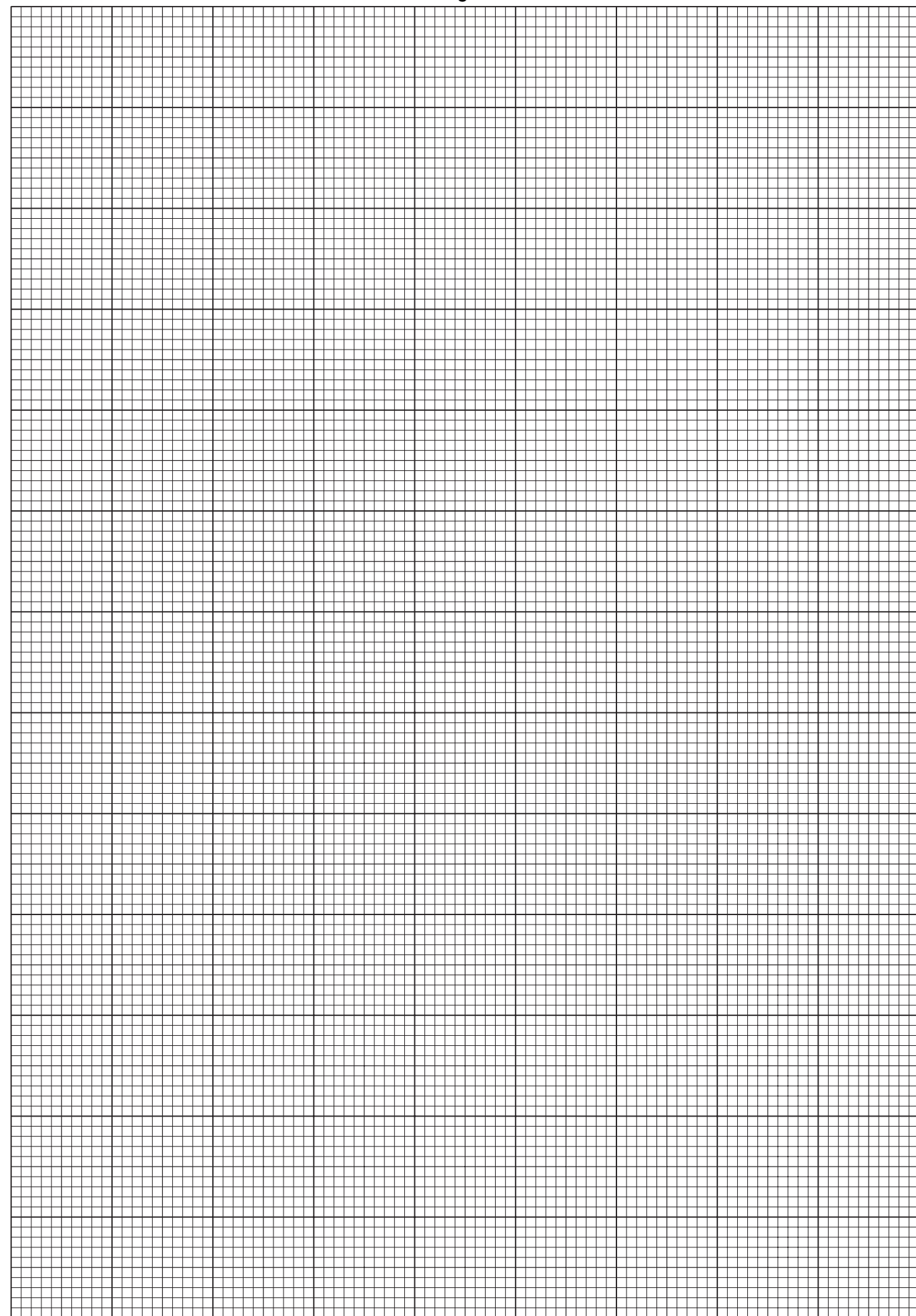
[5]

(f) Value of extension when additional load is 3.6 N

[4]

Graph [6]

Total 15



4 (h) Record of **EF**

(i) Record of **EN**

(j) Calculation of  $n$ , using the equation  $n = \frac{\text{EN}}{\text{EF}}$

[5]

(l) Record of **EF**

Record of **EN**

Calculation of  $n$ , using the equation  $n = \frac{\text{EN}}{\text{EF}}$

[3]

(m) Calculation of the average value of  $n$

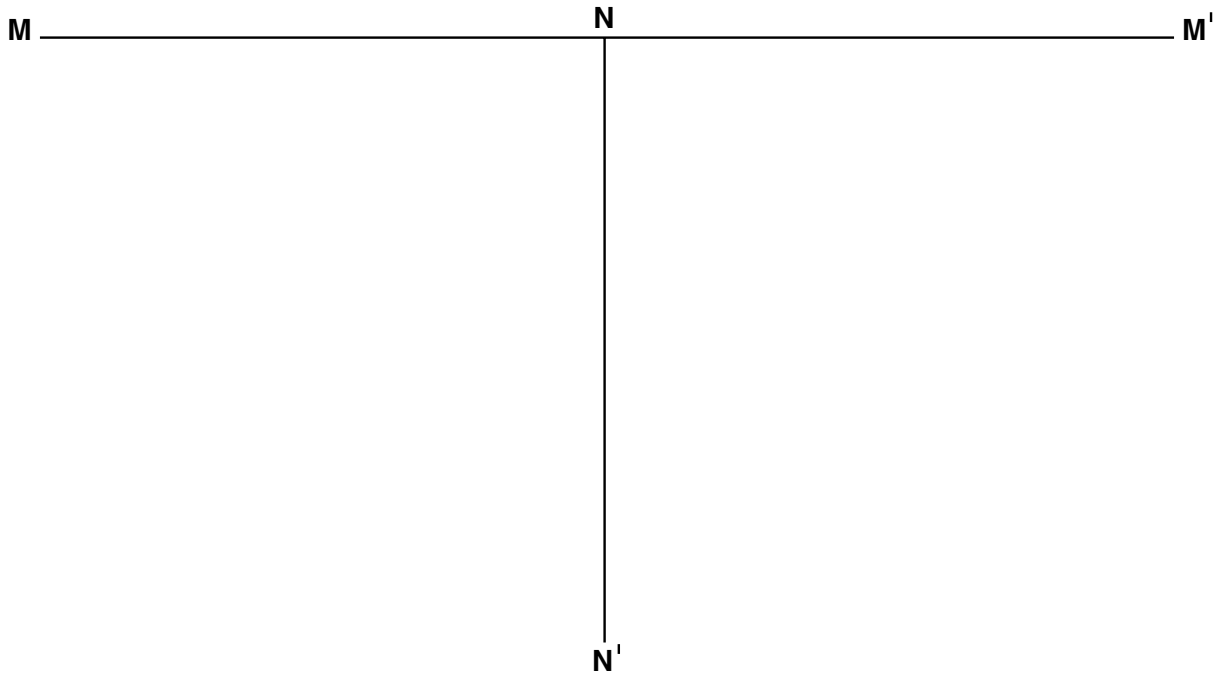
[3]

The ray trace sheet is on page 7 of this booklet.

[4]

Total 15

Ray trace sheet for use with Question 4



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